

## GX 300W

A Trusted Quality Brand in Solar



### Quality & Reliability

Modules are certified to international certification body standards: IEC, UL, and CEC listed. Manufactured according to the International Quality Management System ISO9001.



### Superior Aesthetics

Thin profile double-glass construction provides superior aesthetics that are a perfect complement to roofs, carports, and canopies.



### Guaranteed Performance

Positive sorting tolerance of  $-0\%/+3\%$  power output ensures optimal system performance. All modules have 10 year product warranty and 25 power output warranty.



### Extreme Climate Performance

As temperatures rise, our patented SmartSilicon hybrid cell technology produces 5% more power [kW] than conventional crystalline silicon solar panels at the same elevated temperature.



### Environmentally Responsible

Environmentally friendly with the lowest energy payback in the industry. Modules contain no toxic materials.

### About Sunpreme

Sunpreme is an innovative SmartSilicon crystalline module manufacturer headquartered in Sunnyvale, California with manufacturing facilities in the United States and China. We provide high quality, reliable and aesthetically superior modules to residential, commercial, governmental and utility customers globally.

### SmartSilicon Technology

Sunpreme modules use our patented SmartSilicon technology that combines a crystalline silicon substrate with innovative thin-film materials to achieve high-efficiency power output and reliable energy production for increased project returns.

Unlike conventional silicon or thin-film technologies, Sunpreme uses abundant, low-cost raw materials and a highly-scalable process to deliver solar power with declining cost-per-watt.



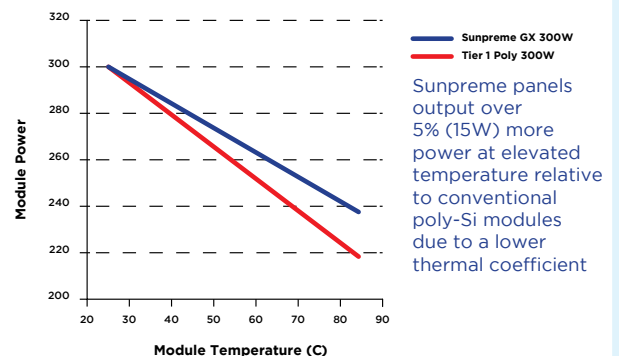
**16%**  
MODULE EFFICIENCY

**300W**  
POWER OUTPUT

**10 YEAR**  
PRODUCT WARRANTY

**25 YEAR**  
POWER WARRANTY

### Superior Temperature Performance



This benefit drives the LCOE lower by improving the energy yield and increasing capacity factor.

ELECTRICAL SPECIFICATIONS <sup>1</sup>	280	290	300
STC rated output P <sub>MPP</sub> (W)	280	290	300
Standard sorted output	-0/+3%	-0/+3%	-0/+3%
Open Circuit Voltage V <sub>OC</sub> (V)	48.2	49	49.7
Short circuit current I <sub>SC</sub> (A)	8.0	8.2	8.5
Rated Voltage V <sub>MPP</sub> (V)	37.2	37.9	38.5
Rated Current I <sub>MPP</sub> (A)	7.5	7.7	7.8

<sup>1</sup>: Standard Test Conditions: 1000 W/m<sup>2</sup>, 25°C; electrical characteristics are within ± 10 percent of the indicated values of I<sub>sc</sub>, V<sub>oc</sub>, I<sub>mpp</sub>, and V<sub>mpp</sub>

WARRANTY AND STANDARDS
10 year extended product warranty
25 year limited power warranty
90% power warranty at 10 years
80% power warranty at 25 years
Modules Certified to IEC 61646, IEC 61730-01, IEC 61730-02, and UL 1703 standards. CEC listed.

MECHANICAL SPECIFICATIONS	
Dimensions	1,946 x 976 x 6 mm [6.4 x 3.2 x 0.02 ft]
Weight	27.7 kg
Area	1.89m <sup>2</sup> [20.34 ft <sup>2</sup> ]
Module type	72 Cells, Frameless double-tempered-glass design, no module grounding required
Glass	Tempered 2.9mm anti-reflective coating, low-iron
Junction Box	Tyco IP-65 rated; UL & IEC Listed; 600V/1,000V UL, 1,000V IEC, 3 diodes
Cables	4mm <sup>2</sup> x 0.9m cable with Tyco connectors

THERMAL CHARACTERISTICS	
Temperature coefficient P <sub>MPP</sub>	-0.35%/°C
Temperature coefficient I <sub>SC</sub>	+0.05%/°C
Temperature coefficient V <sub>OC</sub>	-0.20%/°C
Nominal operating cell temperature (NOCT)	46 +/- 2 °C

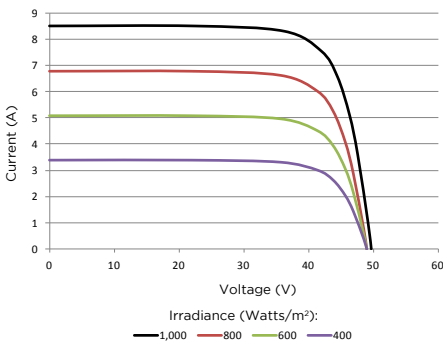
TEST OPERATING CONDITIONS	
Operating Temperature	- 40 to + 85°C
Storage Temperature	- 40 to + 85°C
Maximum Series Fuse	15 A
Maximum System Voltage	600VDC / 1,000VDC (UL), 1,000VDC (IEC)
Peak Power per Square Foot	14.8 W / Sq. Foot
Maximum load capacity	5,400 Pa (Snow Load)
Maximum wind speed	185 MPH (Safety Factor 3)
Fire Class	Class C

PACKAGING	
Modules per pallet	24 modules
Pallets per shipping container	22 crates

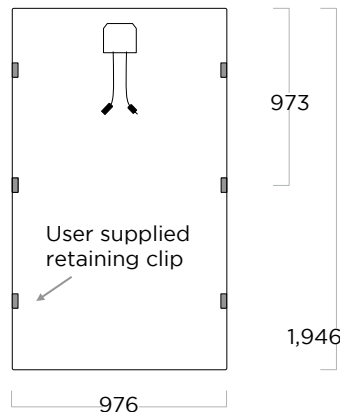
### CERTIFICATIONS



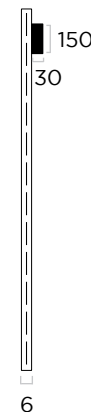
### Current - Voltage (IV) Curve



### Rear View (mm)



### Side View (mm)



### Sample Mounting Schematic

